

Hi-Performance Industrial Polyamide Epoxy

Gloss • 5170

Product Description

Flo-Guard Hi-Performance Industrial Polyamide Epoxy is a 2-part coating formulated to provide a cross-linked epoxy gloss finish that exhibits excellent hardness and durability, chemical and moisture resistance, and protects against alkali attack and corrosion. It provides outstanding resistance to chemical cleaning, resists fresh & salt water, chipping, cracking & peeling and has excellent product versatility. It is ideal for use on ferrous and non-ferrous metal surfaces, as well as for protecting concrete surfaces in a variety of interior and exterior applications. Perfect for use in petroleum refineries, food and beverage processing plants, metal finishing and fabrication shops, warehouses, power plants, pulp and paper mills, or where ever a high performance coating is required.

Recommended Substrates

- Ferrous metals & properly prepared galvanized & non-ferrous metals
- Poured and precast concrete
- Properly prepared concrete floors
- Wood and plywood
- Tanks, machinery and structural steel

Product Features

- Polyamide epoxy formula
- Excellent coverage and durability
- Impact and abrasion resistant
- Corrosion, moisture and alkali resistant
- High performance
- USDA Approved

Product Limitations

- This product is for use on properly above grade vertical substrates.
- When exceeding the working life there maybe color drift, this will not affect the performance of the product.
- May yellow over time and if exposed to prolonged exposure to fossil fuel burning fumes.
- Must be topcoated on exterior substrates or fading, chalking and/or discoloring will occur
- Do not apply if air, product & substrate temperature is <55 or >90° F.
Expect longer dry times at lower temperatures & higher relative humidity.

Application: Brush, roller, airless or conventional spray

Flash Point: >80°F Flammable

Clean Up: Xylene

Available bases | 5170: WB | TB | DB | AB

Available colors | 5175: Sussex Gray

Available colors | 5176: Tony Tan

Available colors | 5177: Dark Gray

Available colors | 5178: Clear

Compliance

This products is VOC compliant based on limits provided by the EPA.

Product Data

Product Type: **Polyamide Epoxy**

5170

Gloss @60°: 85 -95

Wt Solids ±2%: 67%

Vol Solids ±2%: 53%

Wet Film Mils: 4.6 - 6.4

Dry Film Mils: 2.4 - 3.4

Coverage / Gal * 250 - 350

* coverage and wet and dry millage will vary by substrate type and porosity.

VOC gms p/L*: <450

**less exempt solvents and before the addition of colorant

Viscosity KU ±5: 80

Dry time @ 50% RH***: 2 - 3 HRS to touch

4 - 6 HRS to recoat

7 Days full cure

***dry times, pot life & recoat times listed may vary according to the relative humidity, temperature, film build, color and air movement of the application environment

Induction Time 30 Min @ 77°F & 50% Relative Humidity

Working Life 2 - 3 HRS @ 77°F & 50% Relative Humidity

Pot Life 4 - 6 HRS @ 77°F & 50% Relative Humidity

NOTE: higher temperatures can reduce working and pot life by 50% or more. If product becomes thicker and more difficult to apply, discontinue use and use fresh material.

Recoat Window 3 Days****

**** >3 days, product must be scuff sanded before re-coating

Shelf Life Two (2) years unopened



Flo-Guard*

*FORMERLY SUNDEAVOR



FLORIDA PAINTS

Hi-Performance Industrial Polyamide Epoxy

Gloss • 5170

Surface Preparation:

WARNING! If you scrape, sand, or remove old paint, you may release lead dust or fumes. LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a properly fitted NIOSH-approved respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

Mildew: Surface areas affected by mildew should be treated with a commercial mildew removal and/or wash product carefully following manufacturer's application and safety directions. Rinse thoroughly with clean water and allow a minimum of 24 hours to dry thoroughly.

Concrete & Masonry: All new masonry surfaces must be allowed to dry/cure a minimum of 30 days before painting. Acid etch or abrade all slick, glazed concrete or concrete with laitance to a minimum of CSP of 1-2. CMU and concrete with a deeper profile will require additional coats and/or film build.

Ferrous Metals: Clean substrate and prepare surface in accordance with SSPC-SP1 and SSPC-SP2/3 to create a mild profile and apply this product.

Galvanized Metals: Allow to weather a minimum of six (6) months prior to applying coatings. Clean substrate and prepare surface in accordance with SSPC-SP1. If weathering is not possible, solvent clean per SSPC-SP1 and apply a test patch, let cure a minimum of seven (7) and perform an adhesion test. If adhesion is poor, the surface must be abraded in accordance with SSPC-SP6 Brush Blasting to remove these treatments and create a mild profile.

Previously Painted Surfaces: Remove any loose scale, chalked, cracked or peeling paint from previously painted surfaces with a minimum of SSPC-SP3, or as required by the specification. Previously painted surfaces that are in poor condition should be completely removed to reveal a more compatible surface for paint application. Sand smooth all rough paint edges to the adjacent surface area and abrade all glossy surfaces to effectively dull the existing sheen levels. Repair or replace any damaged or deteriorated substrate and surface imperfections with the proper patching compounds or building materials. Prime all bare, new, chalked, and repaired surfaces with the properly specified primer.

Always apply a test patch to confirm adhesion and compatibility with the existing coating.

Surface Preparation Standards					APPLICATION EQUIPMENT					
Surface Condition	Method	SSPC	NACE	Mil Profile						
Grease, Oil, Grime, Etc	Solvent Cleaning	SP1	N/A	N/A	<ul style="list-style-type: none"> • Brush Application: Apply using quality nylon, polyester or combination nylon/polyester brush. • Roller Application: Apply using a smooth: 3/8" - 3/4" shed resistant roller cover, depending on texture or surface porosity. • Spray Application: <table border="0"> <tr> <td>Pump: Gas or Electric Airless Sprayer</td> <td>Tip: 0.015 - 0.017 Reversible</td> </tr> <tr> <td>Pressure: Minimum 2000 PSI</td> <td>Hose: 1/4 inch (6.3 mm) - 3/8 inch (10 mm)</td> </tr> </table> 		Pump: Gas or Electric Airless Sprayer	Tip: 0.015 - 0.017 Reversible	Pressure: Minimum 2000 PSI	Hose: 1/4 inch (6.3 mm) - 3/8 inch (10 mm)
Pump: Gas or Electric Airless Sprayer	Tip: 0.015 - 0.017 Reversible									
Pressure: Minimum 2000 PSI	Hose: 1/4 inch (6.3 mm) - 3/8 inch (10 mm)									
Light Rust	Hand Tool Cleaning	SP2	N/A	<1						
Moderate to Heavy Rust	Power Tool Cleaning	SP3	N/A	<1						
Heavy Rust, Failed Coating	Power Tool to Bare Metal	SP11	N/A	1-2						
Heavy Rust, Failed Coating	Commercial Blast	SP6	3	1-6						

THINNING: If necessary, can be thinned up to 10% by volume with xylene. **DO NOT THIN** if pot life is exceeded or the product thickens to an unusable viscosity.

Mixing Instructions: One part-A to one part-B by volume at 1:1 ratio. Blend components thoroughly using slow power agitation; avoid whipping air into the coating as this will cause excessive bubbles in the film. Allow components to stand 30 minutes prior to beginning application. Average working life is 2 - 3 hours @ 77° F, with a pot life of 4 - 6 hours before thickening to an unusable viscosity. **DO NOT THIN** to make workable again, let harden and dispose in accordance with local, state and federal regulations.

Neither Component Will Work Unless Mixed With The Other! Do not re-use containers that have been converted or mix with previously catalyzed material.

NOTE: There may be a color variance if applied after the working life of the material. It will not affect the performance of the product, but may be aesthetically unpleasing if using as a basecoat for a chip or flake floor or if the final coat.

Application: Apply when surface, product and ambient temperatures are above 55° F and below 90° F; and relative humidity is <85%. Avoid paint application when weather conditions are threatening, and late in the day when there is a threat of moisture condensing on wet paint. Always paint to a natural break in the surface, such as a corner or edge. When applying by brush, apply a smooth and generous coat on smaller surface areas, such as cutting-in larger surfaces and painting edges or corners. When applying by roller cover, apply an even and generous coat in a "W" or crisscross motion, avoiding any excessive re-spreading or reworking. During spray application, use a 50% overlap to avoid pinholes, holidays and voids. If necessary, apply again at a right angle. Maintain a wet edge during application by brushing, rolling or spraying into previously applied coating area.

Stripe Coat: All crevices, sharp angles and welds are to be coated via brush to provide additional protection and to ensure adequate coverage in these areas.

Clean Up: Minor spills, painting tools and spray equipment should be immediately with xylene. More serious spills should be contained and removed with inert absorbent material. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

SAFETY: KEEP OUT OF REACH OF CHILDREN!

CAUTIONS: DANGER! FLAMMABLE LIQUID AND VAPOR! CONTAINS XYLENE, NAPHTHA & GLYCOL ETHERS! VAPOR HARMFUL! HARMFUL OR FATAL IF SWALLOWED!

Vapor harmful. May affect the brain or nervous system causing dizziness, headache or nausea. Causes nose, throat, eye and skin irritation. May be harmful if absorbed through the skin. Keep away from heat, sparks and flame. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **USE ONLY WITH ADEQUATE VENTILATION!** Do not breathe dust, vapors or spray mists. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator, (NIOSH approved), during and after application. Follow respirator manufacturer's directions for respirator use. Do not get in eyes, on skin or clothing. Wash thoroughly after handling, and before eating or smoking. Close container after each use.

DO NOT TAKE INTERNALLY!

FIRST AID: In case of skin contact, wash thoroughly with plenty of warm soapy water. For eye contact, flush with plenty of water for 15 minutes and get medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If swallowed, do not induce vomiting, drink large amounts of water and get medical attention immediately. Consult SDS for additional details.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents herein may be harmful or fatal.

Storage and Disposal

Product should be kept from freezing temperatures and stored in a cool dry location. Refer to your local city or county government for instructions on disposal options.

Florida Paints believes the technical data represented in this technical bulletin to be current and up to date. However, Florida Paints makes no warranties or guarantees either expressed or implied. Florida Paints claims no responsibility from damages incurred from use by either the purchaser or user of the product.

PDS 5170 2107



Save the Trees: Please help the world save a tree. If you must print this document, please consider printing double sided to conserve paper to help the environment.

Florida Paints and Coatings, LLC

78 3rd Street | Winter Garden, Florida 34787
407.986.1000 | info@FloridaPaints.com | FloridaPaints.com